

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P861204

Luminaire Tested: **8APVTLD-SL3C3 HI POWER 4000K 277V**

Issue Date: 1/11/2023

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P861204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (NTCLR22090026)
Test Lab: INNOVATION CENTER
Issue Date: 1/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8APVTLD-SL3C3 HI POWER 4000K 277V
Description: HI POWER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

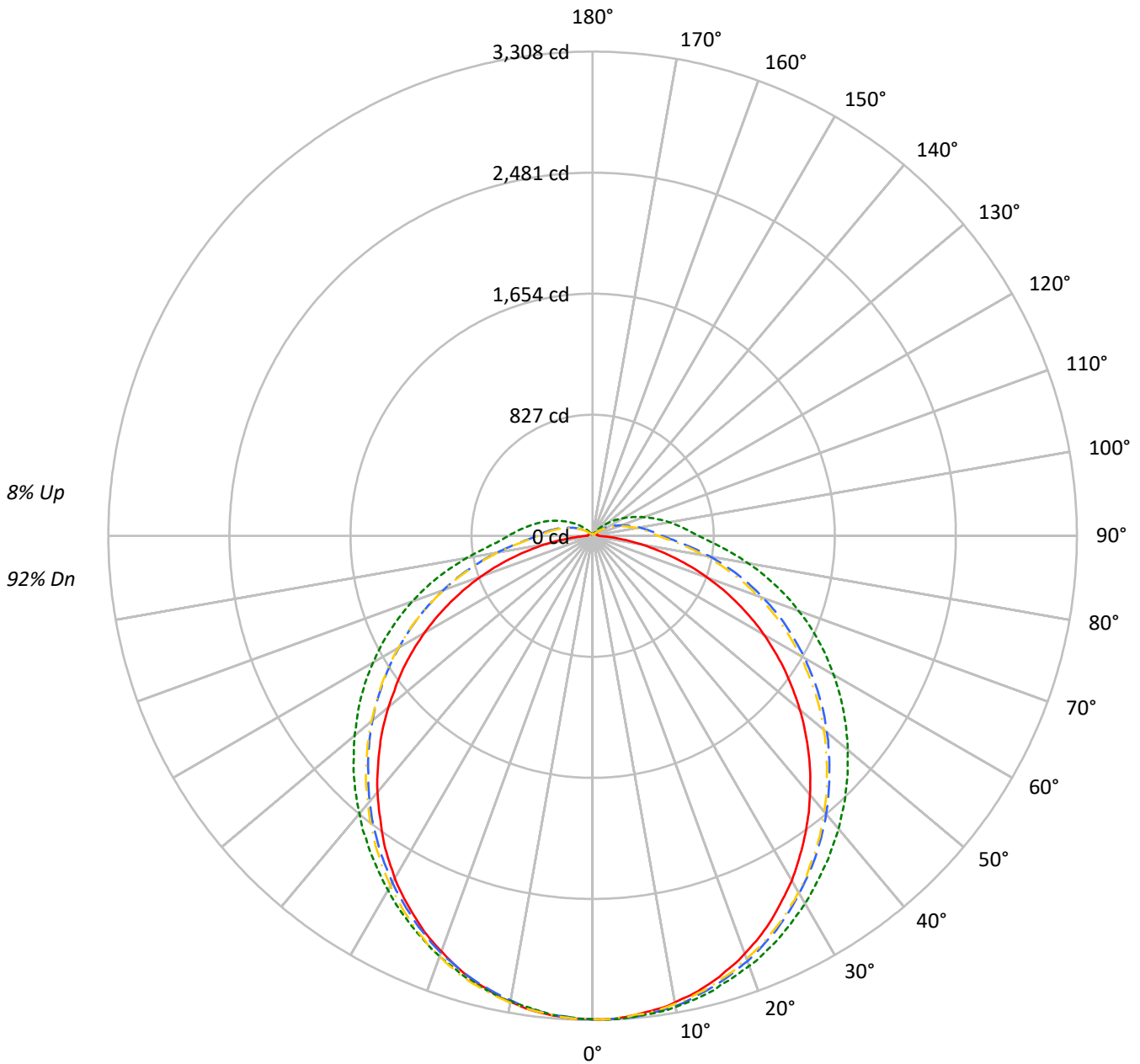
Lumens per Lamp: N/A
Luminaire Lumens: 11249.2 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type: Direct

Input Watts (W): 92
Input Voltage (V): 277
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92			
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	79	77	74			
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60			
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50			
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42			
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36			
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32			
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28			
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25			
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	22			
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	20			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13334	13334	13334	13334
5°	13308	13076	13304	13021
10°	13248	12831	13227	12669
15°	13150	12585	13099	12360
20°	12998	12313	12926	12041
25°	12822	12072	12736	11708
30°	12605	11817	12516	11387
35°	12333	11576	12226	11090
40°	12064	11380	11943	10794
45°	11773	11176	11616	10539
50°	11459	11006	11288	10269
55°	11111	10855	10940	10020
60°	10720	10707	10517	9752
65°	10222	10591	9980	9467
70°	9573	10459	9308	9183
75°	8650	10389	8315	8808
80°	7368	10378	6969	8389
85°	5802	10576	5248	8240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	2.8
10°-20°	893.2	7.9
20°-30°	1351.4	12.0
30°-40°	1633.0	14.5
40°-50°	1718.8	15.3
50°-60°	1614.8	14.4
60°-70°	1346.9	12.0
70°-80°	961.6	8.5
80°-90°	566.7	5.0
90°-100°	354.5	3.2
100°-110°	233.7	2.1
110°-120°	138.8	1.2
120°-130°	71.9	0.6
130°-140°	29.2	0.3
140°-150°	10.7	0.1
150°-160°	6.3	0.1
160°-170°	4.0	0.0
170°-180°	1.4	0.0
0°-30°	2557.0	22.7
0°-40°	4190.0	37.2
0°-60°	7523.6	66.9
0°-90°	10398.7	92.4
90°-120°	727.0	6.5
90°-150°	838.8	7.5
90°-180°	850.0	7.6
0°-180°	11249.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3303	3303	3303	3303	3303	
5°	3288	3298	3286	3284	3288	312
15°	3156	3213	3143	3156	3156	890
25°	2893	3027	2874	2935	2893	1332
35°	2521	2760	2499	2644	2521	1577
45°	2084	2447	2056	2308	2084	1608
55°	1602	2093	1578	1932	1602	1432
65°	1094	1703	1068	1523	1094	1082
75°	576	1288	554	1092	576	611
85°	140	881	127	686	140	156
90°	42	723	38	574	42	26
95°	36	621	33	494	36	29
105°	31	449	29	360	31	33
115°	26	302	25	240	26	26
125°	21	184	21	140	21	19
135°	17	91	14	61	17	13
145°	14	23	12	17	14	9
155°	12	13	11	14	12	6
165°	14	13	15	13	14	4
175°	16	13	18	12	16	1
180°	16	16	16	16	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
1°	3304.5	3302.6	3307.5	3304.1	3305.7	3300.4	3306.3	3300.4	3302.2	3304.5	3301.2
2°	3304.5	3302.4	3304.7	3304.3	3307.5	3301.6	3303.9	3299.1	3301.0	3305.1	3303.8
3°	3301.2	3302.0	3303.8	3305.5	3305.3	3300.0	3296.9	3299.1	3298.3	3302.0	3289.4
4°	3294.7	3295.5	3303.2	3298.5	3303.0	3292.6	3297.1	3295.3	3292.6	3293.4	3287.3
5°	3287.5	3293.0	3300.4	3299.2	3297.7	3293.0	3285.5	3291.6	3286.3	3281.4	3281.0
6°	3278.1	3284.5	3293.6	3294.5	3292.0	3286.5	3284.4	3283.6	3280.2	3272.2	3272.0
7°	3270.6	3275.9	3286.3	3282.0	3289.1	3276.5	3277.3	3274.4	3271.8	3264.4	3264.4
8°	3262.6	3270.0	3279.6	3280.2	3285.3	3273.0	3268.5	3259.3	3262.0	3254.4	3255.0
9°	3254.6	3257.7	3271.6	3274.9	3279.8	3265.5	3259.7	3250.1	3246.9	3244.2	3239.1
10°	3238.1	3245.4	3262.8	3264.8	3268.5	3251.0	3246.5	3237.1	3233.0	3229.5	3223.2
11°	3222.2	3231.6	3251.0	3254.8	3259.3	3241.4	3236.5	3225.2	3222.2	3212.4	3210.1
12°	3209.7	3217.1	3235.0	3244.4	3248.5	3231.0	3223.8	3208.3	3203.0	3195.0	3193.4
13°	3194.0	3200.7	3216.5	3233.6	3236.1	3217.7	3206.4	3191.3	3181.7	3177.9	3175.0
14°	3174.0	3186.6	3204.4	3218.3	3224.8	3206.4	3194.4	3175.0	3164.6	3153.2	3160.3
15°	3155.6	3169.7	3188.9	3203.4	3213.2	3193.2	3175.8	3157.0	3143.4	3132.7	3140.5
16°	3136.0	3151.1	3171.5	3190.1	3188.3	3180.1	3157.6	3130.9	3123.1	3109.3	3121.5
17°	3109.7	3126.4	3152.3	3170.3	3178.1	3159.1	3140.7	3112.3	3099.2	3088.8	3099.7
18°	3089.9	3104.1	3131.9	3157.6	3161.1	3143.8	3123.8	3089.0	3076.0	3066.0	3074.3
19°	3065.4	3082.7	3110.5	3139.3	3143.1	3127.2	3095.8	3059.8	3047.8	3042.7	3054.1
20°	3037.4	3057.2	3092.9	3121.7	3127.2	3109.5	3075.6	3037.0	3020.6	3011.6	3032.1
21°	3010.2	3037.6	3070.9	3098.0	3112.7	3085.6	3053.5	3016.1	2995.9	2984.7	3006.7
22°	2985.7	3010.6	3044.7	3076.4	3090.3	3062.9	3032.9	2987.4	2967.1	2955.9	2979.0
23°	2955.7	2980.8	3018.8	3059.6	3068.2	3049.8	3007.6	2960.8	2939.6	2928.5	2950.4
24°	2925.1	2949.6	2996.1	3035.7	3049.4	3024.5	2980.8	2933.8	2905.7	2898.5	2924.1
25°	2893.0	2919.6	2970.6	3011.8	3026.6	3003.1	2956.5	2900.0	2873.6	2872.0	2894.9
26°	2858.7	2888.5	2941.0	2990.4	3001.0	2974.3	2931.0	2873.6	2840.3	2838.1	2862.0
27°	2822.2	2859.7	2915.7	2962.6	2976.1	2950.8	2903.0	2840.3	2807.5	2805.6	2830.5
28°	2788.5	2827.9	2884.4	2938.3	2950.8	2925.1	2871.4	2806.6	2773.6	2770.5	2798.1
29°	2755.0	2795.8	2854.2	2906.3	2928.1	2899.3	2844.6	2770.3	2739.9	2736.6	2769.5
30°	2720.7	2760.3	2822.2	2881.0	2901.2	2870.5	2811.3	2730.3	2701.5	2698.6	2735.6
31°	2681.3	2725.0	2791.1	2853.0	2875.5	2843.2	2779.5	2700.1	2661.0	2665.9	2698.6
32°	2640.8	2689.4	2758.7	2827.3	2845.6	2810.7	2751.3	2665.5	2622.3	2625.5	2666.6
33°	2601.6	2651.5	2727.4	2798.3	2817.0	2782.1	2711.9	2626.1	2583.9	2589.6	2631.8
34°	2563.0	2614.7	2695.4	2768.5	2789.3	2755.2	2677.2	2587.3	2545.3	2548.9	2596.1
35°	2521.0	2577.3	2660.6	2736.6	2760.5	2724.6	2644.5	2550.0	2499.3	2505.5	2559.4
36°	2481.2	2535.9	2626.3	2705.4	2734.4	2691.1	2609.6	2511.6	2457.1	2467.3	2521.2
37°	2438.9	2497.7	2590.8	2674.9	2702.1	2660.4	2575.9	2472.0	2411.9	2426.6	2484.8
38°	2398.2	2459.9	2554.1	2641.6	2672.1	2627.4	2536.1	2427.9	2370.7	2388.2	2448.7
39°	2352.7	2420.3	2519.5	2610.6	2643.7	2595.7	2499.3	2388.5	2328.0	2345.2	2408.5
40°	2309.6	2379.9	2481.2	2577.5	2612.7	2561.8	2463.4	2348.6	2286.4	2302.9	2369.3
41°	2265.3	2339.2	2443.8	2544.9	2580.8	2530.2	2422.5	2308.2	2242.7	2261.0	2330.5
42°	2222.8	2292.3	2405.6	2511.4	2546.9	2495.4	2385.6	2262.7	2197.3	2217.7	2290.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2083.8	2165.5	2286.4	2408.9	2447.3	2389.7	2263.9	2129.5	2056.0	2085.8	2168.3
46°	2037.4	2120.6	2248.4	2374.0	2415.2	2357.2	2222.6	2086.6	2013.8	2040.7	2128.1
47°	1988.8	2076.6	2209.4	2339.4	2381.9	2322.5	2180.6	2038.1	1966.4	1993.3	2086.0
48°	1943.7	2032.5	2168.5	2303.7	2343.5	2283.9	2143.2	1993.7	1918.3	1945.6	2047.4
49°	1896.1	1984.6	2131.8	2265.9	2309.2	2245.9	2102.6	1951.1	1869.0	1899.8	2003.8
50°	1847.4	1941.6	2089.3	2230.2	2274.9	2210.2	2060.9	1901.7	1819.8	1855.0	1964.5
51°	1798.8	1895.7	2048.7	2194.3	2238.6	2171.0	2018.9	1856.5	1769.5	1809.1	1921.6
52°	1749.2	1848.3	2009.3	2158.3	2202.6	2134.4	1976.6	1809.6	1718.5	1760.4	1878.4
53°	1699.9	1801.5	1968.4	2123.6	2167.3	2095.6	1936.2	1763.4	1673.3	1714.3	1835.4
54°	1650.7	1753.4	1927.1	2080.9	2129.5	2059.9	1894.8	1718.4	1625.1	1666.8	1788.8
55°	1602.4	1706.0	1884.8	2044.6	2093.2	2019.3	1850.3	1668.5	1577.7	1618.8	1749.5
56°	1552.6	1658.6	1842.0	2005.8	2055.4	1979.5	1806.5	1620.3	1527.9	1567.9	1703.9
57°	1502.5	1613.9	1800.3	1966.6	2017.0	1940.8	1764.5	1573.2	1477.0	1518.8	1660.6
58°	1451.7	1566.5	1755.5	1924.5	1979.2	1902.3	1718.9	1525.3	1428.4	1470.7	1617.8
59°	1401.5	1520.0	1713.0	1884.0	1940.8	1862.7	1680.2	1478.4	1375.8	1423.8	1571.9
60°	1351.8	1472.8	1671.1	1843.4	1900.5	1821.7	1635.3	1429.4	1326.3	1378.1	1526.0
61°	1301.0	1423.7	1629.3	1803.8	1862.3	1779.5	1594.5	1382.1	1275.6	1329.9	1484.8
62°	1249.0	1377.4	1586.3	1765.1	1823.9	1737.9	1550.0	1334.7	1223.5	1284.0	1439.6
63°	1197.6	1328.7	1542.9	1722.4	1785.2	1697.0	1506.1	1286.1	1172.1	1234.3	1396.7
64°	1145.3	1281.3	1499.2	1683.0	1744.5	1657.0	1464.6	1240.1	1120.2	1184.5	1352.6
65°	1094.2	1232.4	1456.4	1640.5	1703.3	1612.0	1419.4	1191.9	1068.2	1137.8	1306.5
66°	1041.7	1186.4	1416.7	1600.3	1663.7	1573.8	1376.9	1143.8	1013.9	1090.7	1263.2
67°	990.3	1139.2	1370.8	1560.3	1623.0	1533.2	1332.6	1097.0	964.0	1043.0	1219.8
68°	938.6	1090.3	1327.8	1514.1	1583.3	1490.4	1288.3	1050.5	912.7	992.3	1174.0
69°	887.1	1043.3	1284.4	1476.1	1540.3	1449.0	1244.6	1000.2	861.7	947.3	1128.9
70°	834.4	996.9	1238.8	1430.1	1494.9	1407.8	1201.7	955.0	811.3	900.3	1086.5
71°	782.4	948.0	1196.6	1387.2	1457.0	1366.0	1156.6	907.4	757.0	852.5	1041.4
72°	730.9	903.0	1153.1	1344.7	1415.3	1323.4	1113.4	861.9	706.5	806.5	999.0
73°	678.8	854.9	1111.6	1299.4	1373.1	1280.7	1071.8	814.8	655.3	759.1	954.9
74°	626.5	810.8	1068.1	1258.1	1329.7	1238.9	1026.0	769.9	604.8	713.8	912.9
75°	576.2	765.3	1026.0	1212.8	1287.7	1197.2	983.6	723.9	553.9	669.9	868.0
76°	526.6	720.8	983.0	1171.6	1244.1	1154.3	939.4	677.6	505.2	624.6	825.0
77°	476.6	677.3	937.1	1129.1	1204.2	1114.3	899.9	634.4	456.3	582.1	783.2
78°	428.4	633.5	896.7	1085.5	1163.4	1069.3	854.5	590.6	409.9	539.8	741.2
79°	382.1	591.9	855.9	1046.4	1120.4	1030.2	815.7	548.5	363.3	498.1	701.5
80°	335.7	550.4	813.1	1005.2	1079.5	986.3	773.1	507.6	317.5	459.1	661.5
81°	292.9	511.6	770.7	964.6	1036.6	946.9	733.6	466.5	274.4	420.4	623.4
82°	251.4	471.4	731.9	925.0	996.4	908.9	694.2	427.9	232.2	383.7	586.2
83°	211.3	432.8	692.5	883.7	955.8	870.8	657.8	391.4	193.9	349.5	551.7
84°	175.0	397.2	652.4	844.6	919.0	831.8	620.2	356.8	158.6	316.2	518.3
85°	140.2	362.7	617.9	806.1	880.9	796.3	586.3	323.0	126.8	286.3	488.2
86°	109.7	328.7	584.0	771.2	845.5	762.2	555.0	291.7	98.1	258.1	459.7
87°	84.0	298.3	551.9	735.6	810.1	728.2	522.1	262.9	73.6	232.6	435.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	42.3	232.4	475.3	648.6	723.1	644.3	449.3	201.6	38.4	187.9	385.5
91°	39.9	217.2	456.1	626.6	698.2	620.5	430.0	188.5	37.2	176.9	371.2
92°	38.9	205.6	439.2	607.3	677.7	602.9	414.1	178.5	35.8	167.0	358.3
93°	37.9	193.9	423.3	588.5	658.7	583.1	398.6	168.0	35.0	157.1	345.2
94°	37.0	183.0	407.9	571.6	638.6	566.2	385.8	158.4	34.3	147.7	331.5
95°	36.3	172.4	393.6	554.9	620.6	548.7	371.3	148.1	33.1	139.5	318.0
96°	35.3	163.1	379.1	538.1	601.6	532.5	358.8	139.2	32.6	131.0	305.7
97°	34.8	153.9	363.8	522.2	583.7	515.1	344.2	130.8	31.9	123.0	293.2
98°	34.0	144.8	349.3	506.2	566.0	498.3	331.2	122.4	31.2	115.6	282.9
99°	33.8	136.6	336.1	490.1	548.6	481.3	317.5	114.5	30.4	108.2	270.9
100°	33.5	128.7	322.8	474.7	531.2	464.9	305.7	107.9	30.1	100.9	259.9
101°	32.9	121.2	309.2	458.2	514.4	451.0	293.0	101.2	29.9	95.2	249.6
102°	32.3	114.5	297.5	442.3	497.0	435.0	279.2	94.6	29.4	88.8	238.8
103°	31.8	107.8	284.3	427.1	480.8	420.7	267.6	88.1	29.4	82.9	228.3
104°	31.3	101.4	272.7	411.5	463.6	406.2	255.6	82.3	29.4	78.0	218.9
105°	30.7	95.2	261.7	397.3	448.6	391.7	244.3	76.5	29.2	72.4	207.8
106°	30.4	89.4	250.2	382.6	432.5	376.3	232.7	71.2	28.9	67.2	198.9
107°	29.9	83.7	238.8	367.3	416.9	361.3	223.0	66.6	27.9	61.9	189.1
108°	29.5	78.1	229.1	353.0	401.2	346.5	211.1	61.6	27.7	57.7	179.7
109°	28.9	72.9	218.8	339.8	387.1	333.7	203.1	57.1	27.7	53.7	171.2
110°	28.4	67.6	208.1	326.0	371.5	319.4	192.1	52.8	27.3	49.3	162.1
111°	27.7	63.2	198.3	312.0	357.8	307.4	183.3	48.7	26.8	45.5	154.0
112°	27.5	58.6	188.4	299.2	342.9	294.7	173.1	44.5	26.5	41.3	146.4
113°	27.2	54.5	178.4	286.7	329.2	282.0	163.7	41.0	26.7	37.8	138.0
114°	26.5	50.4	169.9	274.1	316.2	269.3	155.5	37.0	25.8	34.9	130.5
115°	26.0	46.4	161.2	261.9	302.3	257.0	146.9	33.9	25.3	31.5	122.5
116°	25.6	42.4	152.1	250.6	289.8	244.4	138.9	30.9	24.8	28.6	114.9
117°	25.3	39.0	144.1	238.3	276.1	233.3	131.4	28.1	24.3	26.2	108.2
118°	24.8	36.0	135.7	227.6	264.5	222.5	122.9	25.8	24.0	24.1	100.4
119°	24.3	32.9	127.7	216.6	252.0	211.1	115.7	24.3	23.6	24.0	94.3
120°	23.9	30.0	120.3	205.3	240.0	200.4	107.8	24.0	23.4	22.9	87.3
121°	23.4	28.2	113.3	195.2	228.5	189.1	100.4	24.0	22.6	22.3	80.6
122°	22.9	27.3	105.7	185.1	217.9	180.0	93.9	22.8	22.1	21.7	74.7
123°	21.9	27.0	98.3	174.9	205.2	169.6	86.1	22.6	21.9	21.7	67.9
124°	21.2	26.8	91.3	165.1	195.2	159.4	80.3	22.0	21.4	21.2	62.3
125°	20.9	26.0	84.9	155.6	184.0	150.8	73.3	21.5	20.7	21.1	56.6
126°	20.4	25.5	78.2	146.4	174.1	141.0	67.4	21.5	20.0	20.4	51.4
127°	20.0	25.0	72.0	137.2	163.6	131.9	61.3	21.1	19.0	19.9	46.7
128°	19.7	24.3	65.8	128.4	154.3	123.8	55.4	20.4	18.3	19.4	40.9
129°	19.4	23.8	59.5	119.5	144.0	114.6	50.6	19.9	17.3	19.0	36.2
130°	18.9	23.6	54.2	111.3	135.1	106.8	45.3	19.1	16.8	18.5	31.8
131°	18.5	22.9	48.7	103.0	125.2	98.1	40.0	18.8	16.3	18.3	27.2
132°	18.0	22.4	43.5	95.1	117.3	90.5	35.3	18.6	15.8	17.8	23.6



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	16.8	20.6	29.6	72.3	91.1	68.4	23.0	17.1	13.9	16.3	16.0
136°	16.5	20.5	25.6	65.2	82.6	61.4	19.3	16.9	13.8	16.0	15.7
137°	16.3	20.0	22.5	58.5	75.1	55.2	18.1	16.4	13.6	15.6	15.3
138°	16.0	19.7	21.3	52.7	67.2	49.2	17.3	16.1	13.1	15.5	14.5
139°	15.8	19.0	20.8	46.7	60.2	43.2	16.4	15.7	13.1	15.3	14.0
140°	15.3	18.9	20.3	40.8	53.6	37.5	16.1	15.5	12.9	14.4	13.3
141°	15.1	18.2	19.8	35.2	46.7	32.4	15.7	14.9	12.6	14.1	13.1
142°	14.9	18.0	19.6	30.1	40.2	27.2	15.4	14.4	11.9	13.8	12.9
143°	14.6	17.7	18.9	25.0	34.4	22.8	14.5	14.0	11.5	13.6	12.1
144°	14.3	17.2	18.6	21.3	28.4	19.0	14.3	13.5	11.5	13.5	11.4
145°	14.0	16.6	18.1	19.7	23.2	16.8	13.8	13.3	11.5	13.4	11.3
146°	13.7	16.3	17.7	19.1	18.5	16.1	13.7	13.0	11.5	13.3	11.1
147°	13.4	15.6	17.2	18.6	16.5	16.0	13.5	13.0	11.5	13.2	11.2
148°	13.2	15.5	17.1	18.6	16.1	16.1	13.4	12.8	11.4	13.1	11.2
149°	12.9	15.2	16.4	18.1	15.6	15.8	13.4	12.9	11.4	13.0	11.3
150°	12.9	15.0	16.0	18.0	15.3	15.6	13.3	12.9	11.4	12.9	11.4
151°	12.6	14.7	15.9	17.4	14.8	14.9	13.3	12.9	11.4	12.9	11.4
152°	12.5	14.5	15.9	17.1	14.2	14.6	13.2	13.0	11.3	12.9	11.5
153°	12.5	14.3	15.5	16.9	13.7	14.2	13.2	13.0	11.3	12.9	11.6
154°	12.5	14.2	15.5	16.8	13.4	14.1	13.1	13.0	11.3	12.9	11.6
155°	12.5	14.2	15.5	16.2	13.1	13.4	12.6	13.0	11.3	12.9	11.7
156°	12.5	14.1	15.5	16.2	13.1	13.2	12.7	13.1	11.3	12.9	11.8
157°	12.4	14.1	15.5	15.9	13.0	13.2	12.7	13.1	11.4	12.9	11.8
158°	12.4	14.1	15.4	15.9	13.0	13.2	12.8	13.1	11.6	12.9	11.9
159°	12.4	14.0	15.4	15.6	13.0	13.1	12.8	13.1	11.8	13.1	12.0
160°	12.4	14.0	15.4	15.6	13.0	13.1	12.8	13.2	12.0	13.3	12.0
161°	13.1	13.9	15.4	15.4	12.9	13.1	13.0	13.2	12.2	13.4	12.1
162°	13.1	13.9	15.4	15.2	12.9	13.0	13.3	13.9	13.1	14.1	13.0
163°	13.2	14.3	15.3	15.0	12.9	13.0	13.3	14.5	13.9	14.4	13.7
164°	13.6	14.1	15.3	14.7	12.9	13.0	13.4	14.9	14.3	14.6	14.0
165°	14.1	14.1	15.3	14.9	12.8	12.9	13.4	15.0	14.8	14.9	14.5
166°	14.4	14.6	15.3	14.5	12.8	12.9	13.4	15.1	15.4	15.1	15.0
167°	14.8	15.1	15.3	14.4	12.8	12.8	13.4	15.2	16.1	15.5	15.7
168°	15.1	15.3	15.3	14.4	12.8	12.8	13.4	15.3	16.5	15.8	16.4
169°	15.5	15.4	15.2	14.3	12.7	12.8	13.4	15.4	16.8	16.0	17.1
170°	15.6	15.5	15.2	14.2	12.7	12.7	13.4	15.5	17.3	15.9	17.6
171°	15.6	15.7	15.2	14.1	12.7	12.7	13.4	15.5	17.5	15.9	18.3
172°	15.7	15.8	15.2	14.0	12.7	12.7	13.4	15.6	17.8	15.9	18.6
173°	15.7	16.0	15.1	13.3	12.6	12.6	13.5	15.9	18.0	15.9	18.4
174°	15.7	16.0	15.1	13.0	12.6	12.6	13.5	16.2	18.2	15.9	18.4
175°	15.7	16.3	15.1	13.0	12.6	12.6	13.5	16.1	18.3	15.8	18.6
176°	15.8	16.6	15.0	13.0	12.6	12.5	13.5	16.1	18.5	15.8	18.1
177°	15.8	16.8	15.0	12.8	12.5	12.4	13.5	16.1	18.7	15.8	17.6



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3303.4	3303.4	3303.4	3303.4	3303.4	3303.4
1°	3304.3	3301.4	3301.8	3297.5	3303.9	3304.5
2°	3296.7	3296.3	3297.3	3302.8	3303.9	3304.5
3°	3294.2	3293.4	3292.4	3298.1	3300.4	3301.2
4°	3288.5	3288.1	3285.7	3294.0	3292.2	3294.7
5°	3281.0	3283.8	3280.4	3283.0	3284.0	3287.5
6°	3272.6	3271.4	3277.5	3276.5	3280.0	3278.1
7°	3262.2	3260.1	3265.1	3269.8	3271.0	3270.6
8°	3255.0	3249.1	3255.9	3261.8	3260.8	3262.6
9°	3242.0	3241.8	3243.8	3250.8	3246.9	3254.6
10°	3232.2	3227.3	3232.4	3239.5	3231.8	3238.1
11°	3213.0	3221.1	3223.0	3225.2	3216.2	3222.2
12°	3204.0	3205.6	3207.3	3213.4	3203.0	3209.7
13°	3183.0	3189.9	3194.8	3197.9	3185.2	3194.0
14°	3165.2	3173.6	3179.3	3181.3	3167.2	3174.0
15°	3155.0	3156.0	3164.2	3166.6	3144.6	3155.6
16°	3133.5	3139.9	3144.6	3148.3	3123.7	3136.0
17°	3115.6	3119.3	3126.8	3129.1	3099.9	3109.7
18°	3093.1	3095.8	3109.7	3105.4	3075.8	3089.9
19°	3073.7	3077.6	3091.5	3083.3	3050.9	3065.4
20°	3049.4	3058.2	3064.5	3057.4	3028.0	3037.4
21°	3026.1	3035.5	3041.9	3032.7	2999.4	3010.2
22°	3002.7	3010.8	3016.1	3008.8	2969.8	2985.7
23°	2976.7	2984.3	2987.8	2977.1	2939.2	2955.7
24°	2953.9	2961.2	2964.1	2951.4	2907.3	2925.1
25°	2925.7	2935.3	2940.8	2921.4	2875.5	2893.0
26°	2895.3	2908.3	2911.4	2889.5	2844.0	2858.7
27°	2867.3	2882.8	2882.6	2861.2	2811.1	2822.2
28°	2841.1	2855.4	2856.5	2825.2	2779.5	2788.5
29°	2814.4	2826.6	2824.6	2794.8	2745.2	2755.0
30°	2780.5	2795.8	2793.0	2761.7	2709.8	2720.7
31°	2750.5	2766.2	2761.1	2726.8	2674.7	2681.3
32°	2721.3	2735.8	2728.6	2693.7	2638.6	2640.8
33°	2688.8	2705.0	2697.6	2660.0	2601.4	2601.6
34°	2656.3	2673.7	2665.7	2619.4	2561.6	2563.0
35°	2625.9	2644.5	2633.1	2585.5	2521.0	2521.0
36°	2588.8	2612.2	2598.6	2545.9	2480.1	2481.2
37°	2557.1	2576.9	2566.3	2507.9	2438.9	2438.9
38°	2518.3	2550.8	2532.0	2471.2	2397.6	2398.2
39°	2487.1	2513.2	2497.3	2428.5	2356.2	2352.7
40°	2449.7	2478.1	2464.0	2388.2	2313.9	2309.6
41°	2417.4	2445.8	2430.3	2348.6	2269.8	2265.3
42°	2384.0	2410.7	2396.4	2310.6	2224.5	2222.8



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2272.9	2307.8	2281.9	2185.3	2090.5	2083.8
46°	2233.3	2269.6	2244.7	2142.0	2045.2	2037.4
47°	2197.3	2231.6	2204.7	2102.2	1997.6	1988.8
48°	2159.1	2194.5	2164.5	2060.9	1951.2	1943.7
49°	2119.9	2160.2	2128.9	2017.8	1905.8	1896.1
50°	2081.3	2122.4	2085.4	1974.1	1860.3	1847.4
51°	2044.4	2080.9	2043.4	1927.2	1811.0	1798.8
52°	2001.5	2045.2	2007.6	1883.8	1762.1	1749.2
53°	1965.8	2009.1	1967.6	1843.1	1717.5	1699.9
54°	1922.5	1970.1	1926.9	1799.2	1669.1	1650.7
55°	1880.4	1932.1	1886.1	1755.6	1620.2	1602.4
56°	1842.1	1892.7	1843.3	1711.3	1573.5	1552.6
57°	1801.0	1854.3	1804.3	1666.1	1525.7	1502.5
58°	1760.3	1814.6	1761.5	1623.4	1477.5	1451.7
59°	1717.8	1772.1	1720.0	1578.5	1427.5	1401.5
60°	1675.2	1731.0	1675.1	1531.3	1381.2	1351.8
61°	1633.9	1689.9	1632.8	1487.9	1332.6	1301.0
62°	1592.3	1649.8	1588.9	1442.0	1283.8	1249.0
63°	1549.5	1609.4	1547.9	1397.4	1234.8	1197.6
64°	1506.3	1566.5	1501.4	1353.9	1186.1	1145.3
65°	1463.2	1522.6	1460.1	1308.4	1138.0	1094.2
66°	1420.3	1480.8	1418.3	1262.1	1090.8	1041.7
67°	1377.4	1440.1	1373.7	1216.9	1041.5	990.3
68°	1333.3	1395.3	1331.9	1170.8	993.9	938.6
69°	1291.1	1355.0	1288.2	1125.7	944.9	887.1
70°	1246.8	1312.6	1243.8	1081.2	897.5	834.4
71°	1206.2	1266.5	1200.5	1036.7	849.9	782.4
72°	1162.4	1224.3	1158.4	993.0	803.9	730.9
73°	1119.0	1179.5	1115.2	947.6	757.2	678.8
74°	1075.4	1136.7	1072.5	903.2	709.7	626.5
75°	1031.1	1091.7	1029.1	860.0	664.9	576.2
76°	988.3	1046.6	986.2	817.2	622.3	526.6
77°	947.0	1002.1	943.8	775.2	576.6	476.6
78°	904.2	955.9	902.6	733.8	533.2	428.4
79°	863.8	913.5	861.4	692.9	491.2	382.1
80°	825.0	872.6	821.7	654.0	450.4	335.7
81°	784.9	830.3	780.6	615.7	411.4	292.9
82°	748.9	792.4	742.0	579.9	374.9	251.4
83°	714.8	754.4	704.7	544.4	338.5	211.3
84°	682.0	719.6	669.4	510.6	304.9	175.0
85°	650.2	686.3	637.5	479.3	272.3	140.2
86°	621.7	656.6	608.1	451.2	244.9	109.7
87°	595.9	631.3	582.7	425.8	220.5	84.0



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	541.4	574.4	525.4	371.7	170.7	42.3
91°	525.2	557.6	508.2	357.7	160.3	39.9
92°	510.0	540.4	493.0	344.5	150.5	38.9
93°	494.3	524.6	477.9	331.4	141.7	37.9
94°	477.8	509.2	462.2	317.5	134.0	37.0
95°	462.2	494.2	447.0	304.7	126.0	36.3
96°	446.3	479.5	432.9	293.7	117.9	35.3
97°	432.2	465.0	419.2	281.9	110.6	34.8
98°	417.7	450.5	405.3	271.1	103.7	34.0
99°	402.9	437.3	392.0	259.8	97.2	33.8
100°	388.8	423.3	378.2	249.5	91.4	33.5
101°	375.0	409.6	364.3	238.5	85.9	32.9
102°	360.5	397.1	351.3	228.8	80.1	32.3
103°	348.3	384.9	339.6	218.6	75.1	31.8
104°	333.3	371.8	327.8	208.6	70.1	31.3
105°	321.3	360.1	316.8	198.6	65.2	30.7
106°	309.5	348.4	304.5	189.5	60.8	30.4
107°	296.7	336.3	291.7	180.1	56.9	29.9
108°	284.3	324.0	279.8	171.1	53.2	29.5
109°	271.5	310.5	268.2	162.9	49.4	28.9
110°	260.8	298.4	257.1	154.5	45.5	28.4
111°	249.3	286.3	245.8	146.1	42.6	27.7
112°	238.6	273.7	235.6	138.5	39.3	27.5
113°	228.2	261.7	224.7	130.9	36.4	27.2
114°	218.0	250.6	214.5	123.3	33.5	26.5
115°	206.4	240.1	204.6	116.7	31.3	26.0
116°	197.6	228.6	194.5	109.4	29.6	25.6
117°	187.5	218.7	184.3	102.6	29.2	25.3
118°	178.1	208.1	174.7	95.9	28.7	24.8
119°	168.2	197.8	165.2	89.5	28.1	24.3
120°	158.8	187.6	156.2	83.4	27.9	23.9
121°	149.7	177.7	147.5	76.7	27.2	23.4
122°	141.2	167.6	138.7	71.3	26.7	22.9
123°	132.1	158.5	130.4	65.2	26.5	21.9
124°	124.5	149.6	122.2	59.6	25.9	21.2
125°	115.7	140.2	114.4	54.5	25.5	20.9
126°	107.9	131.8	106.2	49.6	25.0	20.4
127°	100.6	123.1	98.2	44.5	24.3	20.0
128°	91.8	114.8	90.8	39.9	24.2	19.7
129°	84.9	106.4	83.1	35.8	23.3	19.4
130°	77.6	98.3	76.3	31.4	22.8	18.9
131°	70.6	90.6	69.4	27.6	22.5	18.5
132°	63.7	82.7	62.7	24.2	21.7	18.0



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	45.3	61.3	45.0	20.9	20.5	16.8
136°	39.2	55.5	39.6	20.5	19.9	16.5
137°	34.3	49.0	34.5	20.3	19.3	16.3
138°	28.5	43.1	29.5	19.7	18.9	16.0
139°	23.8	37.3	25.1	19.0	18.2	15.8
140°	19.2	31.9	21.1	18.6	17.6	15.3
141°	15.7	26.8	18.9	18.3	17.4	15.1
142°	14.5	22.4	18.4	18.0	16.9	14.9
143°	14.5	18.9	18.2	17.4	16.6	14.6
144°	14.0	18.1	17.8	16.9	16.1	14.3
145°	13.5	17.4	17.3	16.2	15.7	14.0
146°	13.5	17.2	17.0	15.9	15.5	13.7
147°	13.3	16.5	16.6	15.4	15.2	13.4
148°	13.2	16.3	16.5	15.0	14.9	13.2
149°	12.6	16.0	16.1	14.9	14.4	12.9
150°	12.1	15.6	16.0	14.7	14.4	12.9
151°	11.8	15.3	15.6	14.2	14.2	12.6
152°	11.4	15.0	15.1	14.0	13.9	12.5
153°	10.8	14.6	15.1	13.8	13.9	12.5
154°	10.6	14.3	14.9	14.0	14.0	12.5
155°	10.4	14.1	14.8	14.0	14.0	12.5
156°	10.5	13.8	14.6	14.0	14.0	12.5
157°	10.5	13.9	14.4	14.0	14.1	12.4
158°	10.5	13.7	14.2	14.0	14.1	12.4
159°	10.5	13.6	14.1	14.0	14.2	12.4
160°	10.6	13.6	14.1	14.0	14.2	12.4
161°	10.6	13.2	13.7	14.0	14.3	13.1
162°	11.3	13.2	13.6	14.0	14.3	13.1
163°	11.6	13.1	13.7	14.0	14.4	13.2
164°	11.8	12.7	13.4	14.0	14.9	13.6
165°	12.1	12.7	13.4	14.0	15.4	14.1
166°	12.5	12.7	13.4	14.1	15.5	14.4
167°	12.7	12.6	13.4	14.1	16.4	14.8
168°	12.9	12.6	13.4	14.2	16.7	15.1
169°	13.1	12.6	13.4	14.2	17.2	15.5
170°	13.3	12.5	13.4	14.3	17.9	15.6
171°	13.5	12.2	13.4	14.4	18.4	15.6
172°	14.0	12.2	13.4	14.7	18.6	15.7
173°	14.7	12.1	13.4	15.9	18.4	15.7
174°	15.2	12.1	13.4	15.9	18.4	15.7
175°	15.0	12.1	13.4	16.1	18.6	15.7
176°	15.0	12.1	13.7	16.2	18.6	15.8
177°	15.0	12.0	13.6	16.2	18.6	15.8



TEST NUMBER: P861204

CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 4000K 277V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	15.8	15.8	15.8	15.8	15.8	15.8



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°







43°	2177.3	2251.8	2366.2	2477.5	2516.3	2462.2	2345.6	2219.4	2149.9	2170.8	2245.7
44°	2130.6	2209.8	2327.0	2443.0	2484.6	2428.3	2302.3	2175.9	2104.4	2128.1	2208.1



88°	64.4	272.1	524.2	703.6	780.5	697.8	494.4	238.0	56.4	214.6	415.4
89°	49.0	250.5	498.1	674.6	749.4	667.6	468.0	218.2	44.4	198.9	400.1



133°	17.5	21.6	38.8	87.2	107.7	82.9	30.7	18.4	15.6	17.2	19.4
134°	17.3	21.4	34.1	79.6	99.7	75.3	26.6	17.9	14.4	17.0	17.0



178°	15.8	16.6	15.0	12.8	12.7	12.7	13.5	16.1	18.7	15.8	17.4
179°	15.8	16.8	15.0	12.8	13.2	12.5	13.5	16.1	18.7	15.8	17.2





43°	2343.7	2377.6	2352.3	2271.6	2181.2	2177.3
44°	2308.8	2339.9	2319.2	2228.6	2136.7	2130.6



88°	574.2	609.6	560.7	405.0	200.3	64.4
89°	556.9	591.1	542.8	387.3	183.1	49.0



133°	56.8	75.4	57.1	22.2	21.3	17.5
134°	51.5	68.3	51.0	21.5	20.8	17.3



178°	15.0	12.2	13.6	16.2	18.6	15.8
179°	15.0	12.7	13.6	16.2	18.6	15.8



(END OF REPORT)